**3GPP TSG-CT WG1 Meeting #129-eC1-212193**

**Electronic meeting, 19-23 April 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.380** | **CR** | **0304** | **rev** | **-** | **Current version:** | **17.2.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | An authorised user clearing the entire floor request queue | | | | | | | | | |
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| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2021-04-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) ... Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The LS response C1-210534 (S6-201695) from SA6 to CT1 (127-e meeting), Clarified further that the procedure for allowing an authorized user to request clearing the queued floor request is enhanced to support the clearing of the entire queue.  In the latest version of 3GPP TS 22.280, a new requirement has been added to allow an authorized user to request clearing the entire queue instead of specifying the list of users to be cleared. SA6 agreed to the attached CR to 3GPP TS 23.379 to fullfill the new requirement reproduced from TS 22.280 below:  [R-6.19.1.1-005a] The MCX Service shall provide a mechanism for an authorised user to clear the entire MCX request queue. | | | | | | | | |
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| ***Summary of change:*** | | The floor control participant and server procedure are updated to support the clearing of entire queue.  6.2.4.7.4: Additional text is added to calrify that entire queue can be cancelled.  6.3.4.4.13: Additional handling is added to clear the entire queue if the list is not present.  8.2.15: Clarification is provided if the clearing of entire queue is required then no need to include field which carries the list of users.  The existing text is repharsed for list of users population in case of response. | | | | | | | | |
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| ***Consequences if not approved:*** | | The authorized user will not have an option to quickly clear the entire queue instead of picking or selecting the users whose floor request can be removed from the queue. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.4.7.4, 6.3.4.4.13 and 8.2.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
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| ***Other comments:*** | | Rev1:   1. 6.2.4.7.4: Reworded the text – “to clearing of an” to “to clear an” 2. 6.3.4.4.13: Reworded the text – “users identified in” to “users indicated in”, replaced ‘is’ with ‘was’ and replaced “doesn’t exists’ with “was not possible to remove as they were not”. Reworded existing (“list of users population in case of response”) 3. 8.2.15: Reworded existing (“list of users population in case of response”) and new proposed text (“If the request is for clearing the entire active floor request queue, this field is neither included in the request nor the response”). | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* \* \* BEGIN CHANGE \* \* \* \* \* \* \*

##### 6.2.4.7.4 Send Floor Queued Cancel Request message (S: Send Floor Queued Cancel Request)

Upon receipt of a request from an MCPTT client to cancel the floor requests of other MCPTT users whose floor requests are in floor control queue or a request from an MCPTT client to clear an entire active floor request queue, the floor participant:

1. shall send the Floor Queued Cancel Request message as described in the subclause 8.2.15; and

2. shall start timer T134 (Floor Queued Cancel Request).

NOTE: It is an implementation option to handle the receipt of the Floor Ack message and what action to take if the Floor Ack message is not received.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

##### 6.3.4.4.13 Receive Floor Queued Cancel Request message (R: Floor Queued Cancel Request)

Upon receiving a Floor Queued Cancel Request message from the associated floor participant, the floor control arbitration logic in the floor control server:

1. if the active floor request queue is empty:

a. shall send a Response to Floor Queued Cancel Request message to the associated floor participant as described in the subclause 8.2.15. The Response to Floor Queued Cancel Request:

i. shall include in the Floor Queue Cancel Response State field and value as '2' (Fail – Queue is Empty); and

ii. if the Floor Request included a Track Info field, shall include the received Track Info field; and

b. may set the first bit in the subtype of the Response to Floor Queued Cancel Request message to '1' (Acknowledgment is required) as described in subclause 8.2.2; and

NOTE 1: It is an implementation option to handle the receipt of the Floor Ack message and what action to take if the Floor Ack message is not received.

c. shall remain in the 'G: Floor Taken' state; and

2. if the active floor request queue is not empty:

a. shall remove the queued floor request of the users indicated in the List of User IDs field from the active floor request queue if the List of User IDs field is present. Otherwise, shall remove all the queued floor requests from the floor request queue;

b. shall send a Floor Queued Cancel Notification message to the associated floor participants whose floor request has been removed from the queue and message is generated as described in the subclause 8.2.15;

c. shall send a Response to Floor Queued Cancel Request message to the associated floor participant as described in the subclause 8.2.15. The Response to Floor Queued Cancel Request:

i. shall include in the Floor Queue Cancel Response State field and value as '0' (Success);

ii. if the Floor Request included a Track Info field, shall include the received Track Info field; and

iii. if the List of User IDs field was present in the received Floor Queued Cancel Request message, shall include the list of users whose queued floor request was not possible to remove as they were not in the active floor request queue in the List of Users Queued Floor Request field; and

d. may send a Floor Queue Position Info message to the remaining users in the active floor request queue if any, if negotiated support of queueing of floor requests as specified in clause 14. The Floor Queue Position Info message:

i. shall include the queue position and floor priority in the Queue Info field; and

ii. if the Floor Request message included a Track Info field, shall include the received Track Info field; and

e. shall remain in the 'G: Floor Taken' state.

\* \* \* \* \* \* NEXT CHANGE \* \* \* \* \* \* \*

### 8.2.15 Floor Queued Cancel message

The Floor Queued Cancel message is a request from a floor participant being an authorized user (e.g dispatcher) to cancel the queued floor request of other MCPTT users. Further it is used to notify other MCPTT users of their queued request is being cancelled and to the originator of the request to indicate the status of cancellation of queued floor request.

The Floor Queued Cancel message is used in the on-network mode. In the on-network mode the Floor Queued Cancel message is only used over the unicast bearer.

Table 8.2.15-1 shows the content of the Floor Queued Cancel message.

Table 8.2.15-1: Floor Queued Cancel message

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

|V=2|P| Subtype | PT=APP=204 | length |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| SSRC of floor participant/floor control server/arbitrator |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| name=MCPT |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Functional Alias field |

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| Track Info field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| List of Users Queued Floor Request field |

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| Requested Party's Identity field |

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| Floor Queued Cancel Message Type field |

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| Floor Queue Cancel Response State field |

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With the exception of the three first 32-bit words the order of the fields is irrelevant.

**Subtype:**

The subtype is coded according to table 8.2.2-1.

**Length:**

The length is coded as specified in subclause 8.1.2.

**SSRC:**

The SSRC field carries the SSRC of the floor participant / floor control server / floor arbitrator.

If the message is for cancellation of a queued floor request, then the SSRC shall be that of the floor participant who is requesting cancellation.

If the message is for notifying the cancellation of a queued floor request to the other floor participants or is a response to a message for cancellation of a queued floor request originated by a floor participant, then the SSRC shall be that of the floor control server / floor arbitrator.

The SSRC field is coded as specified in IETF RFC 3550 [3].

**Functional Alias:**

This field shall be included if the message is for a cancellation of a queued floor request from a floor participant or is a response to a message for cancellation of a queued floor request originated by a floor participant. The Functional Alias field is coded as described in subclause 8.2.3.19.

**Track Info:**

The Track Info field is included when an MCPTT call involves a non-controlling MCPTT function. The coding of the Track Info field is described in subclause 8.2.3.13.

**List of Users Queued Floor Request:**

The List of Users field is used only in sending a message for cancellation of a queued floor request of other MCPTT users and for sending a response message to the cancellation of a queued floor request. The List of Users field is coded as specified in subclause 8.2.3.24 and indicates the list of users whose request for permission to send media is queued.

In the case of sending a response message to the cancellation of a queued floor request, the List of Users field indicates the list of users whose queued floor request was not possible to remove as they were not in the active floor request queue.

If the request is for clearing the entire active floor request queue, this field is neither included in the request nor the response.

**Requested Party's Identity field:**

The Requested Party’s Identity field shall be added only when the Floor Queue Cancel request is originated by a floor participant user. This field shall not be added if the Floor Queue Cancel request message is originated by the floor control server (due to local policies). This field is also included in a response messages to the cancellation of a queued floor request originated by a floor participant. The Requested Party’s Identity field is coded as specified in subclause 8.2.3.8.

**Floor Queued Cancel Message Type field:**

The Floor Queued Cancel Message Type field is coded as specified in subclause 8.2.3.23.

**Floor Queue Cancel Response State field:**

The Floor Queue Cancel Response State field is included only when sending a response message to the cancellation of a queued floor request originated by a floor participant. The Floor Queue Cancel Response State field is coded as specified in subclause 8.2.3.25.

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\* \* \* \* \* \* END CHANGE \* \* \* \* \* \* \*